

**VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY MONITORING NETWORK CHANGES  
JULY 2006 to JANUARY 2007**

**INSTRUMENTATION CHANGES SINCE LAST REVIEW**

**51-139-0004, 29-D, Luray Airport, Luray**

The PM2.5 Speciation monitor at this site was terminated September 30, 2006. This area has a good PM2.5 speciation database. The removal of this monitor was due to the high cost of running and analyzing samples coupled with a decrease in funding. The PM2.5 FRM 1-in-3 day sampling will continue at this site, as will ozone monitoring.

**51-520-0006, 101-E, Highland View Elementary School, Bristol**

The PM2.5 Speciation monitor at this site will be terminated September 30, 2006. This area has a good speciation database. The removal of this monitor was due to the high cost of running and analyzing samples coupled with a decrease in funding. The PM2.5 FRM 1-in-3 day sampling will continue at this site.

**51-710-0024, 181-A1, NOAA Property, Norfolk**

CO and SO2 analyzers were installed on October 24, 2006. NO2 monitor was installed in January 2007. This site already had collocated PM10 and PM2.5 monitors.

**51-165-0003, 26-F, VDOT, Rockingham County**

On December 18th, the PM10 at this site was removed and a PM2.5 FRM was installed in its place. This one-in-three day monitor began operation effective January 1, 2007.

**51-650-0004, 179-C, VA School, Hampton**

PM10 was installed and began operation on January 1, 2007 as a one-in-six day sampler. A minimum of two PM10 monitors are needed for the Norfolk-VA Beach-Newport News, VA-NC MSA due to the population level. One PM10 operates in Norfolk. The second required PM10 was installed at the Hampton monitoring site to fulfill regulation requirements.

**51-770-0015, 109-M, Round Hill Montessori School, Roanoke**

On October 14, 2006, a PM2.5 FRM began operation at this site to collect area PM data because of the loss of the Salem PM2.5 monitor in March 2006. This monitor went from one-in-three day sampling to everyday sampling on January 1, 2007. (Due to the high PM values, one of the two Roanoke PM2.5 FRM monitors was required by regulations to operate on an everyday schedule.)

**51-069-0012, 28-L, Clearbrook Fire Station, Frederick County**

PM10 monitor at this site was part of the Winchester Area Special Toxics Study. When the study was completed, the monitor was left in place to continue particulate sampling for the area. Sampling for PM10 at this site began effective February 9, 2005.

**ANTICIPATED INSTRUMENTATION CHANGES**

**51-033-0001, 48-A, U.S.G.S. Geomagnetic Center, Corbin, Caroline County**

Addition of CO and SO2 Trace Gas Analyzers; to be installed for testing and operation in spring of 2007.

**51-165-0003, 26-F, VDOT, Rockingham County**

Addition of ozone analyzer; installation so that operation can begin on April 1, 2007 (start of "ozone season").

## **ANTICIPATED SITE CHANGES**

**51-xxx-xxxx, Addition of Monitoring Site in Albermarle County (AQS Number to be assigned)**

VA DEQ is still in the search for a suitable location for a monitoring site downwind of Charlottesville in Albermarle County. This is a carryover from the last two year's network reviews. It is anticipated that this monitoring station would have an ozone and PM2.5 FRM 24-hour mass monitor. Depending on the location and availability of space, this monitoring site may include NO<sub>2</sub>, trace gas, continuous PM2.5, and other monitors that would characterize this sampling as "research".

## **OTHER**

**51-113-0003, 35-A, Big Meadows, National Park Service, Madison County**

PM2.5 FRM monitor will collect data for approximately one month per season. Data will be used to determine seasonal correlation coefficients for the continuous PM2.5 TEOM monitor at this site. Everyday samples to be collected for approximately 30 days in October 2006, January 2007, April 2007, and July 2007.

## **HOPEWELL SPECIAL TOXICS STUDY:**

VADEQ is setting up three sampling sites for an Air Toxics Study in the City of Hopewell. This is a two-year special study to monitor for the presence of Volatile Organic Compounds (VOCs), PM10 Metals, Hexavalent Chromium, Black Carbon, and Carbonyls. This study will be supported with meteorological instrumentation. The specific sites are as follows:

**51-670-0010, 154-M, Carter G. Woodson Middle School, Hopewell – Upwind site.**

Sampling commenced on November 19, 2006. The site will collect the data for the following target pollutants: VOCs, Hexavalent Chromium, PM10 metals, Black Carbon, and Carbonyls. Meteorological data will be collected.

**51-670-0011, 154-N, Spruance Road, Hopewell – Central site.**

Sampling commenced on November 1, 2006. The site will collect the data for the following target pollutants: VOCs, Hexavalent Chromium, PM10 metals, and Carbonyls. Meteorological data will be collected.

**51-036-0003, 75-C, Virginia Commonwealth University Rice center, Charles City County– Downwind site**

Sampling should commence in February, 2007. The site will collect the data for the following target pollutants: VOCs, Hexavalent Chromium, PM10 metals, and Carbonyls. Meteorological data will be collected.